



DELEGATION BRIEFING
Shieldalloy Corporation - Interim Remedial Measure
Borough of Newfield, New Jersey

Delegation Criteria:

Interim remedial measures to limit migration of contaminants in the groundwater.

Site Description:

The Shieldalloy Metallurgical Corporation (SMC) is located on 61 acres, adjacent to the Hudson's Branch of the Maurice River. SMC has been engaged in the production of chromium metal and specialty alloys at the site since 1951. Past practices at the facility resulted in chromium contamination of groundwater. Investigations were performed which resulted in the installation of a groundwater recovery and treatment system in July 1979. Subsequent investigations have revealed that this system is not sufficient to remedy all the known chromium ground water contamination at and downgradient of the facility.

In accordance with the conditions specified in an Administrative Consent Order (ACO) signed by SMC with the New Jersey Department of Environmental Protection (NJDEP) in 1984, SMC performed investigations to develop an expanded groundwater remediation system. These investigations delineated the extent of the off-site chromium contamination in the groundwater. In addition, volatile organic compounds (VOCs) were detected in the groundwater at the SMC facility and in areas within and surrounding the chromium contamination which originated at the facility. SMC signed another ACO with NJDEP in 1988 agreeing to implement the expanded groundwater remediation system to address the known off-site chromium contamination, and to perform an RI/FS for all potential sources of contamination on site.

The expanded groundwater remediation system is the focus of this Record of Decision and will be implemented as an interim remedial measure (IRM). This IRM will address the chromium contaminated groundwater emanating from the SMC facility as well as any VOCs which are within the chromium contaminant plume. The site-wide RI/FS will, among other things, delineate the source areas of chromium and VOC contaminants on site, reevaluate groundwater contamination on and off site, and evaluate the effectiveness of the IRM.

Issues:

- SMC conducted investigations to address the off-site chromium contaminated groundwater pursuant to the 1984 ACO with NJDEP.
- SMC will implement a "pump and treat" system to address the off-site chromium contaminated groundwater (with VOCs) and will conduct a site-wide RI/FS pursuant to the 1988 ACO with NJDEP.
- Investigations indicate that SMC is not the only source of the VOC contaminated groundwater off site. Due to the VOC contamination, NJDEP established a "well restriction area" in 1986 and extended an existing public water line to affected residential wells.

Recommendation:

It is recommended that the selection of the interim remedial measure be delegated to the Regional Administrator.